

Work plan, milestones and deliverables for the 1st year: detailed contribution of all partners

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- Lot of work will be going on from now
 - Technical work for the Specifications and development
 - New cloud environment
 - New and upgraded standards (linked data, data file formats...)
 - New and upgraded services
 - → New versions of the Data Management tools later on
 - Data management work
 - Specification for new data types (Radar HF, Cyto Fluometers, Gliders)
 - Continuous update of the SDN directories
 - Connexion of new data centres



PAN-EUROPEA FOR OCEAN & MANAGEMENT

1st year
project
planning
WP 1 to WP8

SeaDa	DataCloud Project Planning Year 1											
WP	Activity description	1	2	3	4	5	6	7	8	9	10	11 12
7 1	Project management											
	Management and coordination of all project activities											
2	NA1 - Project network coordination											
2.1	Organisation of the full network meetings	Г				Г				П		
2.2	Organisation of the Steering Group meetings										7	
2.3	Implementation of the coordination tools											Т
3	NA2 - Training of data providers											
3.1	Preparation, coordination and validation of the training programme	Г	П			П						Т
3.2	First training session		Ħ									十
3.3	Second training session											T
4	NA3 – Communication, dissemination and exploitation development											
4.1	Preparing and regular updating of a Promotion and Dissemination Plan	Г				Г				П		Т
4.2	Dissemination and promotion activities											
4.3	Organising 2 editions of the IMDIS Conference		П									Т
4.4	Preparation, coordination and validation of User Workshops	Г	П	1		Г						十
4.5	User Workshop 1	Г	Ħ			Г					T	十
4.6	User Workshop 2		П								T	十
4.7	Submission of standards and best practices	Г	П									十
4.8	Collaboration with SeaDataNet as a legal entity and Intellectual Property issues											
4.9	Developing an exploitation and business plan for long-term sustainability											T
4.10	Establishing an official long-term arrangement with the CMEMS	Г	Ħ									
5	NA4 - Expansion and governance of metadata and data content											
5.1	Population and maintenance of metadata directory services (excl. CDI)											
5.2	Installing local components for upgraded metadata directory services (excl. CDI)		П									Т
5.2.1	Implementation plan and instructions for the gradual installation											T
5.2.2	Installing and configuring upgraded components at the connected nodes											T
5.3	Population and maintenance of the CDI Data Discovery and Access service											
5.4	Installing, configuring the operat. upgraded CDI Discovery and Access service											Т
5.4.1	Preparing an implementation plan and instructions for the gradual upgrading											T
5.4.2	Installing and configuring the upgraded components at connected data centres											T
5.5	Interoperability and exchange with other EU and international systems											
6	VA1 – Core and advanced services											
	Providing core and advanced services											
7	JRA1 – Tuning of requirements and overall integration											
	Interaction meetings between the Scientific Committee and TTG		П			Г						Т
8	JRA 2 – Governance of standards and development of common services											
8.1	Further development of Common Vocabularies											
8.1.1	Improve the transparency of the vocabulary governance model											
8.1.2	New vocabularies, including for OGC themes	ĺ										
8.1.3	Operationalise the vocabulary builder	Ĺ										
8.1.4	Deprecation of vocabularies		П									
8.1.5	Versioning of concepts	Ī	П									
8.1.6	Provenance of mappings											
8.1.7		Ī										
8.2	Analysing linked data principle for common directories											
8.2.1												Т
8.2.2			П									
8.2.3	Developing upgraded REST interfaces											Т
8.3	Review of data formats, also considering INSPIRE data models (O&M)											
8.4	AAA integration with GEANT/eduGain, social networks and other AAA systems											
0 5	Ungrading the enerational Monitoring system											



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1st year project planning WP 9 to WP11

-	SeaDataC	loud Project Planning		_				Yea	ar 1					\neg
Ť	WP	Activity description	1	2	3	4	5	6	7	8	9	10	11	12
1-	9	JRA3 – Developments of upstream services												
?	9.1	Upgrading the CDI service making use of the cloud												
V	9.1.1	Specification of the Sea Data Net European cloud environment												
	9.1.2	Enhancing the EUDAT B2SAFE replication software												
	9.1.3	Integrating and adapting the EUDAT B2HOST software												
	9.1.4	Configuring the upgraded CDI service												
	9.1.5	Deploying the upgraded CDI service												Ш
	9.2	Deploying additional services in the cloud for ensuring integrity and conformity												
	9.3	Upgrading existing maintenance services and tools											_	
	9.4	Developing online services for ingesting autonomous observatory data												
	9.4.1	Development of online service for observatory descriptions												
	9.4.2	Development of the ingestion service												
	9.5	Expanding Sea Data Net capability for handling different data types											_	
	9.5.1	Ingesting, validating, long-term storage and access of HF Radar data												
	9.5.2	Ingesting, validating, long-term storage and access of Flow Cytometer data												
	9.5.3	Ingesting, validating, long-term storage and access of Glider data												
	9.6	Integration of external datasets from international programmes & organisations												
	9.6.1	Identify a list of relevant and possible external data sets												
	9.6.2	Ensure external data sets are made available to SeaDataCloud												
	9.6.3	Discard redundancy between external data sets and Sea Data Cloud data sets												
	9.7	Upgrading existing maintenance services and tools												
	9.6.1	Upgrading CMS and update procedures of metadata calalogue												
	9.6.2	Upgrading MIKADO and NEMO software tools												
	9.7	Develop a preconfigured and pre-built virtual appliance system (CDI)												
	9.8	Development of a coordinated distributed DataCite DOI minting service												
	10	JRA4 – Developments of downstream services												
	10.1	Development of the Virtual Research Environment (VRE)												
	10.1.1	Specification of the VRE architecture in the cloud												
	10.1.2	Development of the VRE												
	10.1.3	Deployment, testing and taking into operation of the VRE												
	10.2	Advanced services for search, processing, analytics, quality, visualisation												
	10.2.1	Enable sub-setting (search on the cloud database at data level)												
	10.2.2	Development of Ocean Data View online												
	10.2.3	Development of DIVA online												
	10.2.4	Development of Biology Data QC online												
	10.2.5	Development of visualization services												
	10.2.6	Further development of the Oceanotron services		Ш										
	10.2.7	Development of SOS viewing services for operational data streams		Ш									_	╝
	10.3	Developing MySeaDataCloud	L	Ш		L	L			Ш				╝
	11	JRA5 – Development, update and publication of data products												
	11.1	Production of "best aggregated observational data sets"		Ш										
	11.2	Production of standard climatological data products		Ш										
	11.3	Development of new products		Щ										
	11.4	Publication of data products and documentation		Ш										
	11.5	Training on data products generation											\Box	

SDC Kick-off meeting, Riga, Nov. 30 - Dec. 1, 2016

1st year contractual milestones

Milestone	WP	<u>Leader</u> and participants	Delivery date
Kick-off meeting and report	1	IFREMER all	M2



1st year deliverables (1): 11 for NA and VA

Deliverable	WP	Leader	Delivery month
Operational coordination tools	2	IFREMER	2
Project plan	1	IFREMER	3
Signed consortium agreement	1	IFREMER	3
Monitoring Plan with indicators and measurement protocols	6	OGS	3
Minutes of the kick-off meeting	2	IFREMER	4
Minutes of the first Steering Group meeting	2	IFREMER	4
Initial promotion and Dissemination Plan v0	4	ENEA	4
Newsletter n°1	4	MARIS	5
Poster-Leaflet v1	4	ENEA	6
Minutes of the second Steering Group meeting	2	IFREMER	9
MoU between SeaDataNet and CMEMS	4	IFREMER	12



SDC Kick-off meeting, Riga, Nov. 30 – Dec. 1, 2016

1st year deliverables (2): 17 for JRA

Deliverable	WP	Leader	Delivery month
Minutes and recommendations of the first WP7 meeting	7	EU-JRC	4
Specification of the SeaDataNet European cloud environment	9	CSC	6
List of relevant and possible external data sets	9	EuroGOOS	6
Updated metadata formats and related XML schemas	8	CNR	8
Minutes and recommendations of the second WP7 meeting	7	EU-JRC	10
Specification of the SWE ingestion service, including SWE profiles and architecture	9	52NORTH	10
Review of data formats, also considering INSPIRE data models	8	NERC- BODC	12
Enhanced EUDAT B2SAFE replication software	9	CINECA	12
Adapted EUDAT B2HOST service operational	9	DKRZ	12



SDC Kick-off meeting, Riga, Nov. 30 – Dec. 1, 2016

1st year deliverables (3): 17 for JRA

Deliverable	WP	Leader	Delivery month
Specification of the Virtual Research Environment (VRE) in the cloud and development plan	10	DKRZ	12
Specification of Biology Data QC online and development plan	10	VLIZ	12
SDC_V1 Release of aggregated data sets and documentation for regional seas and the global ocean	11	IFREMER	12
Definition of product documentation	11	INGV	12
Feasibility study and definition of new climatological products (pentadal, decadal mean, trends) and the increase of resolution of standard climatologies	11	INGV	12
Strategy for publishing and dissemination of data products	11	METU-IMS	12
Feasibility analysis and definition of new observational products, their time schedule, release and dissemination	11	UniBO	12



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Partners involvement in WPs

	Partner	VA/D1	W/D2	WP3	W/D/	WDE	WDG	WD7	M/DO	WP9	WP10	W/D11		Partner	W/D1	W/D2	WP3	W/D4	WDE	WDC	M/D7	M/DO	WDO	WP10	W/D11
_	1	WPI		WP3									-		WPI		WPS	WP4		WPO	VVP/	WPo	WP9	WPIU	
1	IFREMER	X	<u>X</u>	-	X	X	X	X	X	X	<u>X</u>	Х	29	SIO-RAS		X	ī.		X		\vdash			\vdash	X
2	MARIS	X	X	-	X	X	X	X	X	X	X		30	IO-BAS		X	t .		X					\vdash	X
3	NERC-BODC		X	<u> </u>	Х	Х	Х	Х	<u>X</u>	Х	Х	Х	31			Х	t		Х						Х
4	BSH-DOD		Х	ı		Χ	Х		Χ	Χ	Х	Х	32	TSU-DNA		Х	t		Х		\vdash			\vdash	Χ
5	SMHI		Х	t		Х			Χ	Х	Х	Х	33	IOF		Χ	t		Х		\vdash				Х
6	IEO		Х	t		Х						Х	34	NIB		Х	t		Х						Χ
7	HCMR-HNODC		Х	T	Х	<u>X</u>	Х	Χ	Χ	Χ	Х	X	35	UoM		Х	t		Х						Х
8	OGS		Х	Т	Χ	Χ	<u>X</u>		Χ	Χ	Х	Χ	36	IOLR		Χ	t		Χ						Х
9	RIHMI-WDC		Х	t		Χ			Χ	Χ	Х	Χ	37	CNR		Χ	t	Χ	Χ			Χ	Χ	Χ	Х
10	ENEA		Х	t	X	Χ			Χ	Χ	Х	Χ	38	IOPAN		Χ	t		Χ			Χ	Χ	Χ	Χ
11	INGV		Х									<u>x</u>	39	CSIC		Χ	t		Χ			Χ	Χ	Х	Χ
12	METU-IMS		Х	t		Χ						Х	40	Deltares		Χ						Χ	Χ	Χ	
13	AWI		Х	Т					Χ	Х	Х	Х	41	SYKE		Χ	t		Χ			Χ	Х	Х	Х
14	ULg		Х	Т					Χ	Χ	Х	Х	42	UkrSCES		Χ	t		Χ						Х
15	IMR		Х	t		Χ			Х	Χ	Х	Х	43	ETT		Х		Χ				Χ	Χ	Х	
16	AU-DMU		Х	t		Χ						Х	44	EuroGOOS		Х		Χ					Χ		
17	ICES		Х	t		Χ			Х	Χ	Х	Х	45	DKRZ		Х			Χ	Х		Χ	Χ	Х	
18	EC-JRC		Х		Χ			<u>X</u>				Х	46	CINECA		Х	Т		Х	Х		Χ	Χ	Х	
19	MI		Х	t		Х			Χ	Χ	Х	Х	47	csc		Х	Т		Х	Х	Х	Χ	Χ	Х	
20	IHPT		Х	t		Х						Х	48	STFC		Х			Χ	Х		Х	Х	Х	
21	NIOZ		Х	t		Х			Х	Х	Х	Х	49	GRNET		Х			Х	Х		Х	Х	Х	
22	RBINS		Х	X	Χ	Χ						Х	50	University of Bergen		Х	t				Χ				Х
23	VLIZ		Х	Т		Х			Х	Χ	Х	Х		GEOMAR	/	Х	t		Х		Х				Х
24	MRI		Х	t		Х						Х	52	52North		Х		Χ				Х	Х	Х	
25	FMI		Х	t		Х						X	53	SHOM		Х	t		Х			Х	Х	Х	Х
26	IMGW		Х	t		Х						X	54	ORION		Х	t	Χ	Х			Х	Х	Х	Х
27	MSI		Х	t		Х						X	55	CNRS		Х	t		Х		Х	Х	Х	Х	Х
28	LHEI		Х	t		Х						Х	_	University of Bologna		Х					Х				Х

<u>X</u>	WP Leader
Χ	Task leader
Χ	Involved in a sub-Task

Χ	Participation to the WP
Т	Participation to WP3 as trainer
t	Participation to WP3 as trainee

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Subcontractors involvement in WPs

	Subcontractors	WP1	WP2	WP3	WP4	WP5	WP6	WP7	WP8	WP9	WP10	WP11
57	INSTM		Χ	t		Χ						
58	IBMK		Х	t		Χ						
59	IOC-JCOMMOPS		Χ						Χ			
60	IOC-IODE		Χ	Χ	Χ							
61	CSIRO		Χ						Χ			

<u>X</u>	WP Leader
Χ	Task leader
Χ	Involved in a sub-Task

Χ	Participation to the WP
Т	Participation to WP3 as trainer
t	Participation to WP3 as trainee



PAN-EUROPEAN INFRASTRUCTURE FOR OCEAN & MARINE DATA MANAGEMENT

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Partners involvement in WGs

			Partner	SG	PCG	ΠG		Rg Black	Rg Med	Rg Arctic	Rg Baltic	Rg North	Rg Atl.		Partner	SG	PCG	ΠG	SC		Rg Med	Rg Arctic	Rg Baltic	Rg North	Rg Atl.
SG	Steering group	1	IFREMER	<u>X</u>	<u>X</u>	Х	Х	Χ	Х	Х		Х	<u>X</u>	29	SIO-RAS		Х			Х			Х		Х
		2	MARIS	Х	Χ	<u>X</u>								30	IO-BAS		Х			Х					
	Project Coordination Group	3	NERC-BODC	Х	Χ	Χ				Х		Х	Х	31	NIMRD		Х			Х					
TTG	Technical task Group	4	BSH-DOD	Χ	Χ	Χ					Х	Х	Х	32			Х			Х					
SC	Scientific Committee		SMHI	Х	Х	Х					<u>X</u>			33			Х				Χ				
		6	IEO		Х				Х				Х	34	NIB	ļ	Х				Χ				
<u>X</u>	Regional group leader	7	HCMR-HNODC	Х	Х	Х	Х		Х					35			Х				Χ				
Х	Participation to the group	8	OGS	Х	Х	Х			Х					36			Х	L.			Х				
	.	9	RIHMI-WDC		Х	Х		Х		Х			Х	37	CNR		Х	Х	-		Х				
		10	ENEA	Х	X	Х			Х					38			Х	Х					Х		
		11	INGV	X	X				<u>X</u>					39		ļ	X	Х			Х				
		12	METU-IMS	X	X			<u>X</u>	Х					40		ļ	X	Х							
		13	AWI	X	X	X		.,	.,	,,	.,	.,		41			X	Х		.,			Х		
			ULg	X	X	X		Х	Х	X	Х	X	Х	_			X	ļ.,		Х					
		15 16	IMR AU-DMU	Х	X	Х				<u>X</u>	· ·	X	X	43		-	X	Х							\vdash
		17	ICES		X	Х					X	X	X	_			X	V							
		18	EC-JRC	X	X	۸	v			Х	Х		Х	46			X	X							-
		19	MI	^	X	Х	^						Х	46		Х	_ ^	X							
		20	IHPT		X								Х	48		ı^	X	X							
		21	NIOZ		Х	Х						Х	Х	49			Х	Х							
		22	RBINS	Х	Х							X		50			Х		Х			Х		Х	Х
		23	VLIZ	Х	Х	Х						Х		51		1	Х		Х			Х		Х	Х
		24	MRI		Х					Х			Х	52	52North	1	Х	Х							
		25	FMI		Χ						Х			53	SHOM		Х	Х		Х	Χ	Х	Х	Х	Х
		26	IMGW		Х						Х			54	ORION	l	Х	Х			Χ				
		27	MSI		Х						Х			55	CNRS		Х	Х	Х		Х				Х
		28	LHEI		Χ						Х			56	University of Bologna		Х		Х						



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Subcontractors involvement in WGs

	Subcontractors	SG	PCG	TTG	SC		Rg	Rg	Rg	Rg	Rg
						Віаск	Med	Arctic	Baltic	North	Atl.
57	INSTM		Х				X				
58	IBMK		Х				Χ				
59	IOC-JCOMMOPS		X								
60	IOC-IODE		Χ								
61	CSIRO		Χ								

SG	Steering group
PCG	Project Coordination Group
TTG	Technical task Group
SC	Scientific Committee
<u>X</u>	Regional group leader
Х	Participation to the group



SDC Kick-off meeting, Riga, Nov. 30 – Dec. 1, 2016

Foreseen meetings

	Year 1											
Start Nov. 1, 2016	201	6	2017									
Nb month from start	1	2	3	4	5	6	7	8	9	10	11	12
	Z	D	J	F	М	A	Μ	J	–	Α	S	0
	SG			SC		SG				SC		SG
	KO					TTG						PM
	TTG											TTG

PM Plenary meetings

KO Kick-off

SG Steering Group

SC Scientific committee

TTG Technical Task Group

Meetings of Technical task team

Twice a year

SeaDataNet

- 1st meeting: Nov. 29, 2016
- Next meeting: In April 2017, week starting the 17
- 31 partners Involved:
 - AWI, BODC, BSH, CNR, CNRS, CSIC, Deltares, ENEA, ETT, EUDAT-CINECA, EUDAT-CSC, EUDAT-DKRZ, EUDAT-GRNET, EUDAT-STFC,HCMR, ICES, IFREMER, IMR, IOPAN, MARIS (chair), MI, NIOZ, OGS, ORION, RIHMI, SHOM, SMHI, SYKE, ULG, VLIZ, 52°North

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Meetings of the Steering Group

- Twice a year, once at same time as plenary
 - 1st meeting, Nov. 28 2016
 - Next meeting in April 2017, same week as TTG
- Involved partners
 - Work package leader. BODC, ENEA, HCMR,
 IFREMER (chair), INGV, MARIS, OGS, EC-JRC,
 RBINS,
 - Specific skills: AWI, BSH, EUDAT-CSC, ICES, ULG, VLIZ
 - Regional coordinators for products: IFREMER, IMR, INGV, METU-IMS, RBINS, SMHI

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Meetings of the Scientific committee

- Twice the first year, once a year then
 - 1st contact, today at the end of this KO
 - Next meetings to be defined (reports planned on M4 a nd M10)
- Involved parners
 - CNRS, EC-JRC (Chair), GEOMAR, HCMR, IFREMER, UiB, UniBO

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Other meetings

- Advisory group meetings
 - Once a year at plenary meetings
 - Involved people
 - Advisors
- Coordination group meeting
 - Once a year
 - All members : partners, subcontractors, advisory board
 - Next meeting in October 2017: Place? Dates?
 - 16 20 October 2017 + STCOM + TTG
 - 23 27 October 2017 + STCOM + TTG

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Already connected data centres

- All partners make sure that the connection to CDI are still operational and that data are downloadable
- Update of the catalogues
 - Continuous maintenance of EDMED, EDMERP, EDMO, CDI and CSR

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New data centres and not yet connected data centres

- Focus on the connection to the CDI system (data access)
 - Assistance of MARIS (<u>cdi-support@maris.nl</u>) and of IEO, OGS, SIO-RAS
 - Installation of mandatory tools
- Generation of XML descriptions for all catalogues using the MIKADO tool
 - Assistance of sdn-userdesk@seadatanet.org
- Test of the full process on some examples of each catalogues



IMDIS 2018

SeaDataNet

- End of October 2018, back to back with SDC Plenary meeting and Steering committee
 - Place : Barcelona, hosted by CSIC
 - Dates?
 - 15 -19 October 2018
 - 22 26 October 2018